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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,216	11/14/2003	Mallinath Hatti	15270US01	2560

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EXAMINER

PIZIALI, JEFFREY J

ART UNIT	PAPER NUMBER
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2629

MAIL DATE	DELIVERY MODE
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05/18/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/714,216	Applicant(s) HATTI ET AL.	
	Examiner Jeff Piziali	Art Unit 2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 February 2007 and 14 November 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 1-7 and 16-20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 8-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicants' election of Inventive Group II (i.e., claims 8-15) in the reply filed on 19 February 2007 is acknowledged and appreciated. Because applicants did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
2. Claims 1-7 and 16-20 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 19 February 2007.
3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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5. Claims 12-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

6. Claim 12 recites the limitation "the information regarding the first frame" in lines 2-3. There is insufficient antecedent basis for this limitation in the claim. Base claim 8, recites the subject matter of "providing information about a second frame" (see lines 4-5). However, it would unclear to one having ordinary skill in the art if these two sets of information are distinct or one and the same.

7. Claims 13-15 are rejected under 35 U.S.C. 112, second paragraph, as being dependent respectively upon rejected base claims.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. Claims 8-15 are rejected under 35 U.S.C. 102(b) as being anticipated by ***Sotheran (US 5,603,012 A)***.

Regarding claim 8, Sotheran discloses a system for displaying frames, said system comprising: a display engine [i.e., 3-buffer system] for providing a first frame; a host processor

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[i.e., buffer manager] for providing information [i.e., status information] about a second frame to the display engine, after the display engine provides the first frame; and wherein the display engine provides the first frame [i.e., previous displayed buffer repeated], if host processor does not provide the information regarding the second frame to the display engine before a predetermined time [i.e., available time to decode] (see Column 295, Line 45 - Column 296, Line 40).

Regarding claim 9, Sotheran discloses the display engine provides the second frame [i.e., READY buffer] if the host processor provides the information regarding the second frame before the predetermined time (see Column 295, Line 45 - Column 296, Line 40).

Regarding claim 10, Sotheran discloses the predetermined time comprises a first horizontal synchronization pulse following a vertical synchronization pulse associated with the second frame (see Column 295, Line 45 - Column 296, Line 40).

Regarding claim 11, Sotheran discloses a frame buffer [i.e., three buffers] for storing the second frame beginning at least one starting address; and wherein the information comprises the at least one starting address (see Column 295, Line 45 - Column 296, Line 40).

Regarding claim 12, Sotheran discloses a first at least one register [i.e., three buffers] for storing the information regarding the first frame (see Column 295, Line 45 - Column 296, Line 40).

Regarding claim 13, Sotheran discloses a feeder [i.e., READY buffer] for providing the first frame based on the information regarding the first frame if the host processor does not provide the information regarding the second frame before the predetermined time (see Column 295, Line 45 - Column 296, Line 40).

Regarding claim 14, Sotheran discloses the host processor overwrites [i.e., EMPTY buffer] the information regarding the first frame with the information regarding the second frame and wherein the feeder providing the second frame based on the information regarding the second frame (see Column 295, Line 45 - Column 296, Line 40).

Regarding claim 15, Sotheran discloses the feeder rasterizes the first frame (see Column 325, Lines 55-61).

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gray (US 2004/0152492 A1), Kurittu et al (US 2004/0120309 A1), Wallace et al (US 2004/0086000 A1), Selby et al (US 7,158,186 B2), Blacquiere et al (US 7,152,197 B2), Huntley (US 7,133,401 B2), Lyons et al (US 6,330,286 B1), Lyons et al (US 6,061,399 A), Hurst Jr. (US 6,034,731 A), Sandler et al (US 5,608,734 A), Cohen et al (US 5,359,712 A), and Geyer et al (US 4,964,113 A) are cited to further evidence the state of the art pertaining to systems for displaying frames.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Piziali whose telephone number is (571) 272-7678. The examiner can normally be reached on Monday - Friday (6:30AM - 3PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (571) 272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Jeff Piziali
14 May 2007